

OY	24.1	q t g a c c t g a t c t g t t t g t g a a a c t g t c t g c c g g c t a c t c c c t t c c a g t c t g t c g g	300
Db	24.1	q t g a c c t g a t c t g t t t c t g t g a a a c c t g t g c c g g c t a c t c c c t t c c a g t c t g c t g g	300
OY	30.1	g c g a c c c g g c c t g t c g c t g a a a t a c a g t b c c c g c t a c t a t g t c c a a c t g c c t c t g c g g	360
Db	30.1	g c g a c c c g g c c t g t c g c t g a a a t a c a g t b c c c g c t a c t a t g t c c a a c t c t g c t c t g c g g	360
OY	36.1	a c a g t g c a g a g t t t c a a c g a t t g c c c a a g c c g a c g a c c t t g g t a t t t t c a t c g a c	420
Db	36.1	a c a g t g c a g a g t t t c a a c g a t t g c c c a a g c c g a c g a c c t t g g t a t t t t c a t c g a c	420
OY	42.1	t g g t t a t a g a g a g c a g a g c g g c g g c a g c c t t a c t t g g g c c a a t g c c t g a t c g a c g a	480
Db	42.1	t g g t t a t a g a g a g a g c a g a g c g g c a g c c t t a c t t g g g c c a a t g c c t g a t c g a c g a	480
OY	48.1	a g g c c a a t b c t c t g t t g c t c g c t c g a a a c t c a a c t a c a t g t t t a g c g a c a g t	540
Db	48.1	a g g c c a a t b c t c t g t t g t c g c t c g c a a a c t c a a c t a c a t g t t t a g c g a c a g t	540
OY	54.1	t t g g t g a a g a g t a t c g a c c a g a t c t g a t t g t t c g a c a c c g a g c t g g c c g t c g g t g	600
Db	54.1	t t g g t g a a g a g t a t c g a c c a g a t c t g a t t g t t c g a c a c c g a g c t g g c c g t c g g t g	600
OY	60.1	c c c c t g t c t g t t g g g a a c a c c t g t c c c c t t g a g a a g t a a g c g t g a t c t c c a a c a g	660
Db	60.1	c c c c t g t c t g t t g g g a a c a c c t g t c c c c t t g a g a a g t a a g c g t g a t c t c c a a c a g	660
OY	66.1	a a g c a t a c a a t a t g c c g c c t t g c c g t c t t c t g t a c a g c g a a c a g c c a t g c t g c	720
Db	66.1	a a g c a t a c a a t a t g c c g c c t g c c g t c t t c t g t a c a g c g a a c a g c c a t g c t g c	720
OY	72.1	t c a a g c c c a a g t g a a c a t g a c t g c t c g c a a a t c t a t c g g t t g a a g c c a g t g c t t a	780
Db	72.1	t c a a g c c c a a g t g a a c a t g a c t g c t c g c a a a t c t a t c g g t t g a a g c c a g t g c t t a	780
OY	78.1	c c a t c g c c g a c a g a g a g t c g t c a c c a a g a g a c a t g a c a t g c t g a a g a a g t g a a c	840
Db	78.1	c c a t c g c c g a c a g a g a g t c g t c a c c a a g a g a c a t g a c a t g c t g a a g a a g t g a a c	840
OY	84.1	a a a a c g c t c c c t c t g a a a g t g g c g g c g a c t t c a t g a t t t t t g c c c g a g a c	900
Db	84.1	a a a a c g c t c c c t c t g a a a g t g g c g g c g a c t t c a t g a t t t t t g c c c g a g a c	900
OY	90.1	g c a c a t t g y c t c c c t a c c t g c c a c a c g a t g c g a a g c c t g a t c a t t g c g a t c t g a a c a	960
Db	90.1	g c a c a t t g y c t c c c t a c c t g c c a c a c g a t g c g a a g c c t g a t c a t t g c g a t c t g a a c a	960
OY	96.1	t g g a a g a a a t t g c c t c t c g c c a a g g c g a t c a a g a c c c t g t g g c c a c t a c t c c a a c c g	1020
Db	96.1	t g g a a g a a a t t g c c t c t c g c c a a g g c g a t c a a g a c c c t g t g g c c a c t a c t c c a a c c g	1020
OY	102.1	a g g c a c c c g t c g t b a c t b g a c c t g g g a c c g t a a g c c a t g a c t c g g g t a t t c a	1080
Db	102.1	a g g c a c c c g t c g t b a c t b g a c c t g g g a c c g t a a g c c a t g a c t c g g g t a t t c a	1080
OY	108.1	a a a g t g a t c c a a g a a g a g c t c c c g a g c c g a c g t g c a a a g t a a g t t g c g c c c t g c	1140
Db	108.1	a a a g t g a t c c a a g a a g a g c t c c c g a g c c g a c g t g c a a a g t a a g t t g c g c c c t g c	1140
OY	114.1	c c g t c a c c a g a c t a g a c t c g a t a c g t a c t a g t t g c a a a c c g t c t g a c c c a a a	1200
Db	114.1	c c g t c a c c a g a c t a g a c t c g a t a c g t a c t a g t t g c a a a c c g t c t g a c c c a a a	1200
OY	120.1	a g a t g a c a a g c c c g g c c a a a t g t c c g g t c t t g a t t c c t c t g t c c g t a c c a a t	1260
Db	120.1	a g a t g a c a a g c c c g g c c a a a t g t c c g g t c t t g a t t c c t c t g t c c g t a c c a a t	1260
OY	126.1	a g t t c t a g a g t c g a c c c g c a g a c t g a a a g t t g g a t c c a c c t a c c a a c c a g c c g a a t	1320
Db	126.1	a g t t c t a g a g t c g a c c c g c a g a c t g a a a g t t g g a t c c a c c t a c c a a c c a g c c g a a t	1320
OY	132.1	c a g a a g t g a a a c c g c t a g c c g a t g t a g t g t t g g g t c t c c c a t g c g a a g t a g a a	1380

```

Db      1321 cagaagtcgaacgccttagcccgataggtagtgggtcctcccactgacgaagttaggaa 1380
|||||
Qy      1381 actgccaggcatcaaaataaacgaagagctcagtcgaaagacttgagccttcgtttacc 1440
|||||
Db      1381 actgccaggcatcaaaataaacgaagagctcagtcgaaagacttgagccttcgtttacc 1440
|||||
Qy      1441 tcttgttctcggttgaagcctctccttaagtaagacaalccgcgcggagagatltgaac 1500
|||||
Db      1441 tcttgttctcggttgaagcctctccttaagtaagacaalccgcgcggagatltgaac 1500
|||||
Qy      1501 gtttcgaaacaaagcgcccggaagggttgccggggaagcgccgcgcacataaactccaggcat 1560
|||||
Db      1501 gtttcgaaacaaagcgcccggaagggttgccggggaagcgccgcgcacataaactccaggcat 1560
|||||
Qy      1561 caaatlaagcaaaagccactcctctgaagatggcctttttgcgttttctaanaactcttct 1620
Db      1561 caaatlaagcaaaagccactcctctgaagatggcctttttgcgttttctaanaactcttct 1620
Qy      1621 gtccgtcatacttaacaagccatccccccaagatacgttaactagcctcgtttttgacc 1680
Db      1621 gtccgtcatacttaacaagccatccccccaagatacgttaactagcctcgtttttgacc 1680
Qy      1681 aggaagcgagctatgacacctcctttaaaccttgnaacacatttgagttgatcataat 1740
Db      1681 aggaagcgagctatgacacctcctttaaaccttgnaacacatttgagttgatcataat 1740
Qy      1741 gctcacacacattgtatgtgccgaagacgaacaacaattactcaatgccgcgg 1793
Db      1741 gctcacacacattgtatgtgccgaagacgaacaacaattactcaatgccgcgg 1793

RESULT 2
US-10-135-807-12
: Sequence 12, Application US/10135807
: GENERAL INFORMATION:
: APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
: APPLICANT: Government of the United Kingdom of Great Britain and
: APPLICANT: Northern Ireland
: APPLICANT: Clark, Duncan Roy
: APPLICANT: Vincent, Suzanne P
: TITLE OF INVENTION: Amplification process
: FILE REFERENCE: CG/P/133/MOD
: CURRENT APPLICATION NUMBER: US/10/135,807
: PRIOR FILING DATE: 2002-04-30
: PRIOR APPLICATION NUMBER: GB 0110501.4
: PRIOR FILING DATE: 2001-04-30
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 12
: LENGTH: 5503
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: PTTQ18NHK
: NAME/KEY: misc_feature
: LOCATION: (3279, 3525)
: OTHER INFORMATION: n is a or g or c or t
US-10-135-807-12

Query Match          22.4%: Score 401.6; DB 7; Length 5503;
Best Local Similarity 96.7%; Pred No. 2e-100;
Matches 410; Conservative 0; Mismatches 14; Indels 0; Gaps 0.

Qy      1267 agagtcacactgcagcagcatgaacgttggctccacctgaaccocatgycgaactcagaag 1326
||| | ||| | ||| | | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      2384 agaatctgcttgccggaatagcgggtgtgtccacctgaaccocatgycgaactcagaag 2443
|||||
Qy      1327 tgaacgcgcatgacgcgaatgttagtgtgggtcttcccacatgcgaagttaggaatgcc 1386
|||||

```

[illegible]

```

RESULT 3
US-10-135-807-13
; Sequence 13, Application US/10135807
; GENERAL INFORMATION:
; APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
; APPLICANT: Government of the United Kingdom of Great Britain and
; APPLICANT: Northern Ireland
; APPLICANT: Clark, Duncan Roy
; APPLICANT: Vincent, Suzanne P
; TITLE OF INVENTION: Amplification process
; FILE REFERENCE: CG/P/133/OWD
; CURRENT APPLICATION NUMBER: US/10/135,807
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: GB 0110501.4
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 6105
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: pTTQ18NHK
; OTHER INFORMATION: vector including the pase sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3881, 4127)
; OTHER INFORMATION: n is a or g or c or t
US-10-135-807-13

```

Query Match	22.4%;	Score 401.6;	DB 7;	Length 6105;
Best Local Similarity	96.7%;	Pred. No. 2.1e-100;		
Matches 410;	Conservative 0;	Mismatches 14;	Indels 0;	Gaps 0;

Accession	Gene	Protein	Accession	Gene	Protein
OY 1267	agatcgaacctgcagcagcatgcaaaccttggtgtccaccctgaccacatgccgaactcagaag	13226	OY 1387	agcgcataataaaaacgaagaagctcagtcgaaaagactgtgaccttcgtttatctcgttct	14466
DB 2986	agaatttgcctcgtgcgcgcagcagtcgcgcgttgcctccaccctgaccacatgcccgaactcaagaag	30455	DB 3106	agggatccaataaaaacgaagaagctcagtcgaaaagactgtgaccttcgtttatctcgttct	31655
OY 1337	tgaaacgcgctgacgcgcgaactgctagctgttgggtctctccaccatgcgagagctagggaaactgc	13866			
DB 3046	tgaacgcgcgcgcgcgaactgctagctgttgggtctctccaccatgcgagagctagggaaactgc	31055			

[illegible]

```

RESULT 4
US-10-146-772-15
; Sequence 15, Application US/10146772
; GENERAL INFORMATION:
; APPLICANT: Short, Jay
; APPLICANT: Weiner, David
; APPLICANT: Chaplin, Jennifer
; APPLICANT: Chi, Ellen
; APPLICANT: Milan, Allene
; APPLICANT: Desantis, Grace
; APPLICANT: Madden, Mark
; APPLICANT: Burk, Mark
; TITLE OF INVENTION: Nitrlases
; FILE REFERENCE: Docket No. DIV-013US
; CURRENT APPLICATION NUMBER: US/10/146, 772
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US 60/309,006
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 60/351,336
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/300,189
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 09/751,299
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/254,414
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/173,609
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 386
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 1047
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Obtained from an environmental sample
US-10-146-772-15

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Query Match	19.5%;	Score 349.2;	DB 7;	Length 1047;
Best Local Similarity	61.0%;	Pred. No. 3.9e-86;		
Matches 567;	Conservative 0;	Mismatches 363;	Indels 0;	Gaps 0;

QY 123 atgcagacaagaanaatcgtccggcagccgcgtacaggccgctctccaaactagat 182
 1 atgcacatcaaaacaacttagagtcgcctcaattcaaacgcccggatattctgac 60
 QY 183 ctgcgaacgggtgtgtgataaacacatttgagcttgctctcagggccgcgataggggtct 242
 Db 61 ctggaggggcgcataagcaaaagatctccctctcttagaggagccgcttccattagagc 120

OY	243	gaccctgctgcttttggtagaacctctgcccgcctacccctccaagctcggctgggc	302
Db	121	aagctcatctccttcccgggaacgtagatctccgggttaaccccctggtgtagatctggctggac	180
OY	303	gcacccgagctctgtctgtgtaaatatacagtcccgctctactatgtccaactcgtctctggagc	362
Db	181	tcacacgcctctgggacatgctgcttctgtccagcgctatcttttgacaactcgcgtcatgctgggt	240
OY	363	agtgcaagagttccaagcatctgcccacagcccgacagcagactctgggtatcttttcatcgacctg	422
Db	241	agtgtagcaagccaagctgcatagaaacacagctgcgcgcacataacaagagtttaagtgtagtag	300
OY	423	ggttatatggcagcagccgaacggtgcgcagcctcttacctgctggccaatgacctgatacgacaag	482
Db	301	ggttatatggcagcagcagctggcgcgcagcctcttacctgctggccaatgaccttatacagaacag	360
OY	483	ggccagatctgctggtgtcgtctgcgaaactcaaacctacaatgctttagcgcgcacgctgttt	542
Db	361	ggtagaaacgagatttttaaccgcgcgcgaataacataacactaatctatctgcagcgttaacgctgttt	420
OY	543	ggtagaaagtttatgcccgcgaagtcttgatgtgtctccgaaacacgagtgtagcgcgcttggtgc	602
Db	421	ggggagggagaaacggcagccatctcttgctatagtatgataccgaagatctggccggtgcgcgcg	480
OY	603	ctgtgctctgctggagacacactgctctccctcttgagaaagtacgcgtgtgtactccacagacaga	662
Db	481	atgtgctgtctgggaacattctgcagccgcgtcagagaataatgacaatgtatctctcagatgaa	540
OY	663	gcaattcaatcttgccgctctgcccgtctcttttgctgttacaagcgaacagcccatgtgcctc	722
Db	541	caaatccaactctgctctcctgcgcgcgaagctcttctgttatatctggggagccacatctgacctc	600
OY	723	agcgcacaaaggtagaacaatgctgctctgcgcaaatctatctggtttgaagcagcagctcttacc	782
Db	601	ggcccgcgaactgaaacaacgctgcgcgcgaacaaigtatgtacagccgaagcgcaagtgcttctg	660
OY	783	atcgccgcgcagcagtgctctgtccaaccacagagacaactgtgacatctgtgaaagttaggtgaac	842
Db	661	cttgcctcccttgcgcgcacacgctctcaaaaggatgatatcgaatgtctgataagatcttcccaag	720
OY	843	aaacccctccctgctgcaagaagtctggcgcgcgcgcagcttccatgattcttgcgcgcgcgaagac	902
Db	721	aaagaagcgcctctctgcgcggaagtgctgcgggtttcaccatgtatctaacgcccgcgatggcga	780
OY	903	acattgctcccttaaccctgcacacagatgcccgaagcctgcatalctatgtcgcatctgaaacatg	962
Db	781	cctctgtgcttaaacogtctgtctgtgaaaagcgaaggcctgtatatactgcagatattgacctg	840
OY	963	gaagaaatctgccttgcgcgaagcgcgtatcaagaagccctgtggccacatctcccaaaccccg	1022
Db	841	ggcatgattccaatgacgaagcgcctgcgcgcgcgcagcagcaggttcaactacgcacgcccgcgat	900
OY	1023	ggcacccgctctggttactgtgaccccttgggcac	1052
Db	901	gtcacctgcctactatccaattccgcgcgcc	930
RESULT	5		
	US-60-380-737-15		
	Sequence 15, Application US/60380737		
	GENERAL INFORMATION:		
	APPLICANT: Short, Jay		
	APPLICANT: Weiner, David		
	APPLICANT: Chaplin, Jennifer		
	APPLICANT: Cui, Ellen		
	APPLICANT: Millan, Aileen		
	APPLICANT: Desantis, Grace		
	APPLICANT: Madden, Mark		
	APPLICANT: Burk, Mark		
	APPLICANT: McQuaid, Jeff		
	TITLE OF INVENTION: Assay for Detecting the Presence Of Nitrites and/or		
	FILE REFERENCE: Docket No. DWSA-1004USP		

```

: CURRENT_APPLICATION_NUMBER: US/60/380,737
: PRIOR_FILING_DATE: 2002-05-15
: PRIOR_APPLICATION_NUMBER: US 60/309,006
: PRIOR_FILING_DATE: 2001-07-30
: PRIOR_APPLICATION_NUMBER: US
: PRIOR_FILING_DATE: 2002-01-22
: NUMBER_OF_SEQ_ID NOS: 386
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ_ID NO 15
: LENGTH: 1047
: TYPE: DNA
: ORGANISM: unknown
: FEATURE:
: OTHER_INFORMATION: Obtained from an environmental sample
: US-60-380-737-15

```

Query Match	19.5%	Score 349.2	DB 8	Length 1047
Best Local Similarity	61.0%	Prod. No. 3,9e+66		
Matches 567	Conservative 0	Mismatches 363	Indels 0	Gaps 0

QY	123	atgagacaaagaataatcgtctccgagcagccgcgtatagagcgccctctccaaactacgat	182
Db	1	atgccacaatcaaaaacaattagatgctgcgcgaagtctaaagcgcccgccggtattcttgac	60
QY	183	cttgcgaacgggtgtgtgataaaaccattgagctgtgcctgtcaaggcccgatgaggctgt	242
Db	61	cttgagagcgccaaataaagcaaaaggcatctccctcaatltgagagggccgcttcaattgagcc	120
QY	243	gacctgtgctggtttgtgtgaacccttgctctgcgcgcatccctcccaacgctctgcgggc	302
Db	121	aagctcaattgcctcccggaacgggtgattcccgctcaaccctcggtyggaatctgtcgtgac	180
QY	303	gcaccggccttgctgcgtgaataatacagtgcgcgctactatgacaaactgcctctgcgtgac	362
Db	181	tcaccgccttgaggcatgctgcctgtctgcacgctatttgaacaactgcctcaatgcctgggt	240
QY	363	agttcagaagtttcaacgcatctgcgcgaagcgcgcgaagccttggtatttcaatgcacgtg	422
Db	241	agttgagcaagcaagcgcataagaaacagagctgcgcgcataaacaagaattacgtggtgag	300
QY	423	ggtatagcgagcgacgaagcgcgcgcgcgccttacccttgagccaatgctgtatcgaacgaag	482
Db	301	ggtatagcgaaagcagctggcgcgcgcgcctctactatggtgcacatcatcaacgacgaag	360
QY	483	ggccagatgctgtgtgtcgtctgcgcaaaactcaaacctacacatgtttgagcgacgctgtt	542
Db	361	ggttaaaacgatttttcaaccgcgcgaacactcaaacctcaatcatgtctgacgcctgttct	420
QY	543	ggttaaaagttatgtgcgcgaagatctgattgtgtccgaacacgaagcttggcgcgcgtctgc	602
Db	421	gggagagggagacgycagacatctctgtcgtataatgataacgcgaatgttgccgcgtccgcg	480
QY	603	ctgtgctgtctggagacacgtgtccccccttgagaaagtacgcgtctgtatctaccacgaaga	662
Db	481	atgtgctgtctggagacattgtgcagcgcgtcagcaaatatgacatgtatcttcagatgtgaa	540
QY	663	gaccttacaattgcccgccttgccgctctcttcttgctgtacacggaacagcccatctggctc	722
Db	541	caaatcaacattgtctctccctgcgcgcgagcttcttgtaatacgggggagacgtacttgactc	600
QY	723	agcgcacaaagtgaacacgtgcctgcctcccaatcatctatctgattgaagccagctcttacc	782
Db	601	ggcccgcaactcgaacacacgcgcgcgcgaacaaatgtatgtacgcgaagcgccagtgcttgtc	660
QY	783	atcgcgcgcagcagtgctcgttcaaccacgaagagacactgtgacatgtcgtgaaagttagtaaac	842
Db	661	cttgccctctgcccgcacgcgtcctcaaaagagatgatcgaaatgctgtatagtatctccagag	720
QY	843	aagcgccttcctcgtgaaagtggggcgggcggaatttccatgatttttgcgcgcgcgcgaagc	902
Db	721	aaaagagcgccttcctcgtgaaagtgggggttcaacatgattttaaagcccccgaatgggcga	780

OY 903 acatitggtccctactactctgccaacagatgccgaagcgcttgatcatttcgcgatctcgaacatg 962
 Db 781 cctctctggtctaaacgcttgcctgtaaaacgaggaagcgctgtctatatacgcatattgacctg 840
 OY 963 gaagaattgcttcgcgcgaagcgatcaacgacctgttggccatctatctcaaccgg 1022
 Db 841 ggcattgatttcaatgaagccaaagctgcgcgcgaccggcagaagctactatcagacgcccgat 900
 OY 1023 gccaccgctgtgctacgtgacctgtgggac 1052
 Db 901 gtccctcgccactacttcaattccgcgcc 930

```

RESULT 6
US-10-146-772-305
; Sequence 305, Application US/10146772
; GENERAL INFORMATION:
; APPLICANT: Short, Jay
; APPLICANT: Weiner, David
; APPLICANT: Chaplin, Jennifer
; APPLICANT: Chi, Ellen
; APPLICANT: Milan, Aileen
; APPLICANT: Desantis, Grace
; APPLICANT: Madden, Mark
; APPLICANT: Burk, Mark
; TITLE OF INVENTION: Nitrilases
; FILE REFERENCE: Docket No. DIV-01305
; CURRENT APPLICATION NUMBER: US/10/146,772
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US 60/309,006
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 60/351,336
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/300,189
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 09/751,299
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/254,414
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/173,609
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 386
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 305
; LENGTH: 1068
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Obtained from an environmental sample
US-10-146-772-305

```

Query	Match	Similarity	19.2%	Score	34.4.8	DB 7	Length	1068
Best Local	Similarity	60.6%	Pred. No.	6.5e-85				
Matches	565	Conservative	0	Mismatches	367	Indels	0	Gaps
QY	142	tcgcggcagccgcgtctacagcgccgcctccccaactacgatctggcaacgggtgtgata	201					
Db	23	ttcgcgctgctgcgtgcagcgcgcaacggtcttccttacttgatgctgcataagata	82					
QY	202	aaagcattgagctgctgcctcagcgccggatgagaggcgtgtacttgatcgtgtttgtgt	261					
Db	83	aagcatctgactctgctgcgcgaacgcgcgaagcgcgcgcaatgtgctcttcgcg	142					
QY	262	aaactgctgcgcggctatcccttcocacgtctgtgctggcgacacggcctgtctgt	321					
Db	143	aaactgctgcgcggctacccctttttcatctgtgctcgatctgcgcgctgtggcattgc	202					
QY	322	aatacagtgccgcgtactatgtgccaactcgtctcgtctgacagctgcaggtttcaacgta	381					
Db	203	aattcatccagcgctaccacatgcgaacatccctcgtgtctacgcacacgcgcgcgcgca	262					
QY	382	ttgccacagcgccacgagacttgggtatttcatcgcacatgtgttatagcgaagcagcg	441					

[illegible]

```

? RESULT 7
? US-60-380-737-305
? Sequence 305, Application US/60380737
? GENERAL INFORMATION:
? APPLICANT: Short, Jay
? APPLICANT: Weiner, David
? APPLICANT: Chaplin, Jennifer
? APPLICANT: Chi, Ellen
? APPLICANT: Milan, Alleen
? APPLICANT: Desantis, Grace
? APPLICANT: Madden, Mark
? APPLICANT: Burk, Mark
? APPLICANT: McQuaid, Jeff
? TITLE OF INVENTION: Assay for Detecting the Presence of Nitriles and/or
? TITLE OF INVENTION: Cyanide
? FILE REFERENCE: Docket NO.DUSA-1004USP
? CURRENT APPLICATION NUMBER: US/60/380,737
? CURRENT FILING DATE: 2002-05-15
? PRIOR APPLICATION NUMBER: US 60/309,006
? PRIOR FILING DATE: 2001-07-30
? PRIOR APPLICATION NUMBER: US
? PRIOR FILING DATE: 2002-01-22
? NUMBER OF SEQ ID NOS: 386
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO: 305

```



```
Db 384 tcgagcgacgtcaagccgacgacgctgagcgacgctgttcgagcgagcgacgac 443
Oy 560 agatctgattctgtccgacacgagctggcgagctgcgctgctgctgctgagca 619
Db 444 ggaacctgagctgtgctgagacggtacatcgcaacatcgctgcgtgctgctgagca 503
Oy 620 cctgtccctctgagcaagctgctgctgtactccagcagcaagcaattcattcgccg 679
Db 504 cctgagcgctctgacgaagctgctgctgtactccagcagcaagcaagcaattcgccg 563
Oy 680 ctgagcgctcttctgctgctgctgctgctgctgctgctgctgctgctgctgctg 739
Db 564 ctgagcgctcttctgctgctgctgctgctgctgctgctgctgctgctgctgctg 623
Oy 740 ggtgagcgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 799
Db 624 cgccgagcgagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 683
Oy 800 cgtaaccagagagacacgtgctgctgctgctgctgctgctgctgctgctgctg 859
Db 684 ggtctcgagagcgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 743
Oy 860 agtggcgagcgagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 919
Db 744 ggtcgagcgagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 803
Oy 920 gctacagagctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 979
Db 804 ggcagagagagcgagagcgctgctgctgctgctgctgctgctgctgctgctgctg 863
Oy 980 caagcgagctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 1039
Db 864 caagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 923
Oy 1040 ggaactgggagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 1099
Db 924 caacagagagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 983
Oy 1100 agctccgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 1153
Db 984 cgccgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 1037

RESULT 9
US-60-380-737-377
: Sequence 377, Application US/60380737
: GENERAL INFORMATION:
: APPLICANT: Short, Jay
: APPLICANT: Weiner, David
: APPLICANT: Chaplin, Jennifer
: APPLICANT: Chi, Ellen
: APPLICANT: Milan, Aileen
: APPLICANT: Desantis, Grace
: APPLICANT: Madden, Mark
: APPLICANT: Burk, Mark
: APPLICANT: McQuaid, Jeff
: TITLE OF INVENTION: Assay for Detecting the Presence of Nitrites and/or
: TITLE OF INVENTION: Cyanide
: FILE REFERENCE: Docket No. DWSA-1004USP
: CURRENT APPLICATION NUMBER: US/60/380,737
: PRIOR FILING DATE: 2002-05-15
: PRIOR APPLICATION NUMBER: US 60/309,006
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: US
: NUMBER OF SEQ ID NOS: 386
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 377
: LENGTH: 1050
: TYPE: DNA
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Obtained from an environmental sample
```

```
US-60-380-737-377
Query Match 19.2%; Score 343.6; DB 8; Length 1050;
Best Local Similarity 58.7%; Pred. No. 1.4e-84;
Matches 595; Conservative 0; Mismatches 419; Indels 0; Gaps 0;

Oy 140 cgtccgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 199
Db 24 cctgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 83
Oy 200 taagacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 259
Db 84 caagacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 143
Oy 260 tgaacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 319
Db 144 cgagacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 203
Oy 320 gaaatagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 379
Db 204 gaaatagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 263
Oy 380 catgacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 439
Db 264 catgacattgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 323
Oy 440 cggcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 499
Db 324 cggcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 383
Oy 500 ggttcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 559
Db 384 tcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 443
Oy 560 agatctgattctgtccgacacgagctggcgagctgcgctgctgctgctgagca 619
Db 444 ggaacctgagctgtgctgagacggtacatcgcaacatcgctgcgtgctgctgagca 503
Oy 620 cctgtccctctgagcaagctgctgctgctgctgctgctgctgctgctgctgctgctgctg 679
Db 504 cctgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 563
Oy 680 ctgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 739
Db 564 ctgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 623
Oy 740 ggttcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 799
Db 624 cgccgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 683
Oy 800 cgtaaccagagagacacgtgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 859
Db 684 ggtctcgagagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 743
Oy 860 agtggcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 919
Db 744 ggtcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 803
Oy 920 gctacagagctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 979
Db 804 ggcagagagagcgagagcgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 863
Oy 980 caagcgagctgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 1039
Db 864 caagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 923
Oy 1040 ggaactgggagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 1099
Db 924 caacagagagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 983
Oy 1100 agctccgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 1153
```

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: / TITLE OF INVENTION: RECOMBINANT BACTERIAL CELLS FOR DELIVERY OF PNP TO TUMOR CELLS
: / FILE REFERENCE: US-12408/22
: / CURRENT APPLICATION NUMBER: US/10/198,228
: / PRIOR FILING DATE: 2002-07-18
: / PRIOR APPLICATION NUMBER: 08/702,181
: / PRIOR FILING DATE: 1996-08-23
: / PRIOR APPLICATION NUMBER: 09/183,188
: / PRIOR FILING DATE: 1998-10-30
: / PRIOR APPLICATION NUMBER: 08/881,772
: / PRIOR FILING DATE: 1997-06-24
: / PRIOR APPLICATION NUMBER: 08/122,321
: / PRIOR FILING DATE: 1993-09-14
: / PRIOR APPLICATION NUMBER: 60/064,676
: / PRIOR FILING DATE: 1997-10-31
: / NUMBER OF SEQ ID NOS: 7
: / SOFTWARE: PatentIn version 3.1
: / SEQ ID NO 5
: / LENGTH: 5013
: / TYPE: DNA
: / ORGANISM: Escherichia coli
: / US-10-198-228-5

Query Match      18.6%; Score 332.8; DB 6; Length 5013;
Best Local Similarity 92.8%; Pred. No. 2e-81;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1267 agagtcgacctcgacgacatgcgaagcttgggtccacactgaccccatgcccgaatcagaag 1326
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1240 agaattgcctcgcgcgacgtatgcgcggtgtgtcccaactgacccatgcggaacccaagaag 1299

QY 1337 tgaacgcgcgtacgcgcgatgtgtagtctgtygggtctccccaatgcgagatgaggaactgc 1386
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1300 tgaacgcgcgtacgcgcgatgtgtagtctgtygggtctccccaatgcgagatgaggaactgc 1359

QY 1387 aggcatacaataaagaagaagcctcagtcagtaagaacacggcgcttctttatctgtgt 1446
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1360 aggcatacaataaagaagaagcctcagtcagtaagaacacggcgcttctttatctgtgt 1419

QY 1447 ttctcggtgaaagcgtctctcttctagtagaacaatccgcgcggagagcgatcttgaacgttcg 1506
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1420 ttctcggtgaaagcgtctctcttctagtagaacaatccgcgcggagagcgatcttgaacgttcg 1479

QY 1507 aagcaagcgcccggaagggtgtgctggcgagagcccgccacataacttcgaagcatcaatt 1566
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1480 aagcaagcgcccggaagggtgtgctggcgagagcccgccacataacttcgaagcatcaatt 1539

QY 1567 aagcagaagcgcaaccctgcagcagatgccttttgcgtttctacaactctctcgttcgctc 1626
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1540 aagcagaagcgcaaccctgcagcagatgccttttgcgtttctacaactctctcgtttat 1599

QY 1627 atatctacaagcattc 1642
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1600 ttctctaatactacattc 1615

RESULT 12
PCT-US02-13026-37
: Sequence 37, Application PC/TUS0213026
: GENERAL INFORMATION:
: / APPLICANT: Williams, John G.K.
: / APPLICANT: Li-COR, Inc.
: / TITLE OF INVENTION: Polymerases With Charge-Switch Activity and Methods of
: / TITLE OF INVENTION: Generating Such Polymerases
: / FILE REFERENCE: 020031-001820PC
: / CURRENT APPLICATION NUMBER: PCT/US02/13026
: / CURRENT FILING DATE: 2002-04-24
: / PRIOR APPLICATION NUMBER: US 60/286,238
: / PRIOR FILING DATE: 2001-04-24
: / PRIOR APPLICATION NUMBER: US 60/314,746
: / PRIOR FILING DATE: 2001-08-24
: / NUMBER OF SEQ ID NOS: 52
: / SOFTWARE: PatentIn Ver. 2.1

```


SEQ ID NO 37
LENGTH: 5772
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: phi29
OTHER INFORMATION: polymerase in pBAD/Myc-HISC vector
PCT-US02-13026-37

Query Match 18.6%; Score 332.8; DB 1; Length 5772;
Best Local Similarity 92.8%; Pred. No. 2.1e-81;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1267 agagtgcacctgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 1326
DB 2216 agaatttccttgcgtgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 2275
QY 1327 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 1386
DB 2276 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 2335
QY 1387 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 1446
DB 2336 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 2395
QY 1447 ttgtcgtgcagcgtctctctcgtatgtagaacaatccgcggagagcgatctgaagcttgcg 1506
DB 2396 ttgtcgtgcagcgtctctctcgtatgtagaacaatccgcggagagcgatctgaagcttgcg 2455
QY 1507 aagcaacgcccgcgaggttgcgcgagcagacgcccgcataaactgcagcatcaaat 1566
DB 2456 aagcaacgcccgcgaggttgcgcgagcagacgcccgcataaactgcagcatcaaat 2515
QY 1567 aagcagaagccatctcgcagatggtccttttgcgttcttacaactcttctgtcgc 1626
DB 2516 aagcagaagccatctcgcagatggtccttttgcgttcttacaactcttctgtcgc 2575
QY 1627 atatctacaagccatc 1642
DB 2576 ttcttaataatcatc 2591

RESULT 13
PCT-US02-13026-38
Sequence 38, Application PC/TUS0213026
GENERAL INFORMATION:
APPLICANT: Williams, John G.K.
APPLICANT: Li-COR, Inc.
TITLE OF INVENTION: Polymerases With Charge-Switch Activity and Methods of
TITLE OF INVENTION: Generating Such Polymerases
FILE REFERENCE: 020031-001820PC
CURRENT APPLICATION NUMBER: PCT/US02/13026
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: US 60/286,238
PRIOR FILING DATE: 2001-04-24
PRIOR APPLICATION NUMBER: US 60/314,746
PRIOR FILING DATE: 2001-08-24
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 38
LENGTH: 5772
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: phi29 exo- pol-
OTHER INFORMATION: double mutant N62D:K383A in pBAD/Myc-HISC vector
PCT-US02-13026-38

Query Match 18.6%; Score 332.8; DB 1; Length 5772;
Best Local Similarity 92.8%; Pred. No. 2.1e-81;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1267 agagtgcacctgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 1326
DB 2216 agaatttccttgcgtgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 2275
QY 1327 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 1386
DB 2276 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 2335
QY 1387 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 1446
DB 2336 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 2395
QY 1447 ttgtcgtgcagcgtctctctcgtatgtagaacaatccgcggagagcgatctgaagcttgcg 1506
DB 2396 ttgtcgtgcagcgtctctctcgtatgtagaacaatccgcggagagcgatctgaagcttgcg 2455
QY 1507 aagcaacgcccgcgaggttgcgcgagcagacgcccgcataaactgcagcatcaaat 1566
DB 2456 aagcaacgcccgcgaggttgcgcgagcagacgcccgcataaactgcagcatcaaat 2515
QY 1567 aagcagaagccatctcgcagatggtccttttgcgttcttacaactcttctgtcgc 1626
DB 2516 aagcagaagccatctcgcagatggtccttttgcgttcttacaactcttctgtcgc 2575
QY 1627 atatctacaagccatc 1642
DB 2576 ttcttaataatcatc 2591

RESULT 14
PCT-US01-50250A-16
Sequence 16, Application PC/TUS0150250A
GENERAL INFORMATION:
APPLICANT: ELITRA PHARMACEUTICALS, INC.
APPLICANT: Haselbeck, Robert
APPLICANT: Wall, Daniel
APPLICANT: Gross, Molly
TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
FILE REFERENCE: ELITRA.010VPC
CURRENT APPLICATION NUMBER: PCT/US01/50250A
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/259,434
PRIOR FILING DATE: 2000-12-27
PRIOR APPLICATION NUMBER: 09/948,993
PRIOR FILING DATE: 2001-09-06
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 6852
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Vector pXY1-T5 p15a
PCT-US01-50250A-16

Query Match 18.6%; Score 332.8; DB 1; Length 6852;
Best Local Similarity 92.8%; Pred. No. 2.2e-81;
Matches 349; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1267 agagtgcacctgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 1326
DB 1563 agaatttccttgcgtgcagcgttcgaagcttggtccaccctgcagcccatgcggaactcaagaag 1622
QY 1327 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 1386
DB 1623 tgaacgcgcgtagcgcgcgtatgtagtctggtgtcccccatacgcagagtaggaactgcc 1682
QY 1387 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 1446
DB 1683 aggcatacaataaagaagagcgtcagcgaagagcttggtccttcttatacctgtgt 1742

